

FILE 'ENCOMPPAT' ENTERED AT 15:10 ON 29 MAY 2002
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The Indexing Template (TD) field is available for some records starting with 940901/ED. Enter HELP TEMPLATE at an arrow prompt (=>) for information on how to use this field.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s (catalyst (l) nickel (l) molybdenum (l) phosphorus (l) group viia (l) aluminum oxide)/lt
      98483 CATALYST/LT
      21833 NICKEL/LT
      15933 MOLYBDENUM/LT
      16889 PHOSPHORUS/LT
      48834 GROUP VIIA/LT
      28349 ALUMINUM OXIDE/LT
L1      52 (CATALYST (L) NICKEL (L) MOLYBDENUM (L) PHOSPHORUS (L) GROUP
      VIIA (L) ALUMINUM OXIDE)/LT
```

```
=> s hydrodesulfurization/ct
L2      3948 HYDRODESULFURIZATION/CT
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=> s l1 and l2
L3      10 L1 AND L2
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=> d 1-10
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L3      ANSWER 1 OF 10  ENCOMPPAT  COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
      INC.
AN      2001:12676  ENCOMPPAT;ENCOMPPAT2
DN      P200118213
TI      Process for the production of low sulfur gas oil fuels by a multi-stage
      catalytic dehydrosulfurization including a stage of partial elimination of
      hydrogen sulfide by stripping
IN      CHAPUS T; MOREL F
PA      INST FRANCAIS DU PETROLE
PI      EP 1123961 20010816
DS      AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;
      MC; MK; NL; PT; RO; SE; SI; TR
AI      EP 2001-400331 20010209
PRAI    FR 2000-2809 20000302
      FR 2000-1811 20000211
OS      DERWENT 2001490834
LA      French
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L3      ANSWER 2 OF 10  ENCOMPPAT  COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
      INC.
AN      2001:3311  ENCOMPPAT;ENCOMPPAT2
DN      P200104740
TI      Hydrotreating of petroleum charges involves using catalyst comprising
      partially amorphous zeolite Y, matrix and a hydro-dehydrogenating element
IN      BENAZZI E; CSERI T; DEVES J M; KASZTELAN S
PA      INST FRANCAIS DU PETROLE
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PI' FR 2793803 20001124
AI FR 1999-6447 19990519
PRAI FR 1999-6447 19990519
OS^v DERWENT 2001114362

L3 ANSWER 3 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 2000:58 ENCOMPPAT;ENCOMPPAT2
DN P200000482

TI New bifunctional hydrocracking catalyst comprising an amorphous oxide matrix , a dealuminised zeolite Y, a group VB element and a promoter

IN BENAZZI E; KASZTELAN S; MARCHAL G N

PA INST FRANCAIS DU PETROLE

PI FR 2780310 19991231

AI FR 1998-8043 19980625

PRAI FR 1998-8043 19980625

OS DERWENT 2000100093

L3 ANSWER 4 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 2000:57 ENCOMPPAT;ENCOMPPAT2
DN P200000481

TI New bifunctional hydrocracking catalysts based on phyllosilicate clays and group VB elements with an amorphous oxide matrix

IN BENAZZI E; KASZTELAN S; MARCHAL G N

PA INST FRANCAIS DU PETROLE

PI FR 2780308 19991231

AI FR 1998-8042 19980625

PRAI FR 1998-8042 19980625

OS DERWENT 2000100092

L3 ANSWER 5 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 1998:9057 ENCOMPPAT;ENCOMPPAT2
DN 9811742

TI New mixed sulphide catalytic system - comprising sulphur and elements of groups Vb and Vlb useful in the hydro-refining and/or hydrocracking of hydrocarbon charges

IN AFANASSIEV P; ALLALI N; DANOT M; GABORIT V; GEANTET C; KASZTELAN S; MIGNARD S

PA INST FRANCAIS DU PETROLE

PI EP 850688 19980701

DS AL; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV; MC; NL; PT; RO; SE; SI

AI EP 1997-403070 19971217

PRAI FR 1997-2595 19970303

FR 1996-16091 19961227

OS DERWENT 98335120

LA French

L3 ANSWER 6 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 94:11766 ENCOMPPAT;ENCOMPPAT2
DN 9412803

TI Catalyst for hydrotreating hydrocarbon and method of prepn. - comprises carrier with molybdenum ligand cpd. as active surface component on the carrier and nickel or cobalt cpd

IN KLIMOV O V; STARTSEV A N

PA AS SIBE CATALYSIS INST

PI WO 9421375 940929

DS CA; JP; US; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

AI WO 1993-RU281 931119

PRAI RU 1993-15330 930323

OS DERWENT 94316727

L3 ANSWER 7 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 93:5289 ENCOMPPAT;ENCOMP2
DN 9311468
TI Pre-sulphurisation of a new or regenerated catalyst - by addn. of a
polysulphide and a halogenated or phosphated cpd
IN BERREBI G
PA EURECAT EURO RETRAITEMENT CATALYSEURS
PI FR 2680704 930305
AI FR 1991-10660 910826
PRAI FR 1991-10660 910826
OS DERWENT 93145894

L3 ANSWER 8 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
INC.

AN 81:2005 ENCOMPPAT;ENCOMPPAT2
DN 8112435
TI HYDROCARBON HYDROPROCESSING CATALYSTS - COMPRISING HYDROGENATING METAL,
Y-ZEOLITE AND ALUMINA-ALUMINIUM FLUOROPHOSPHATE
PA EXXON RESEARCH + ENGINEERING CO
PI US 4277373 810707
PRAI US 1979-66940 790816
OS DERWENT 8154965D

L3 ANSWER 9 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
INC.

AN 79:1418 ENCOMPPAT;ENCOMPPAT2
DN 7912170
TI PROCESSING TAR SAND OIL FOR SYNTHETIC CRUDE OIL PREPN. - BY VACUUM
DISTILLATION AND HYDROPROCESSING OF THE DEASPHALTED VACUUM RESIDUE
PA SHELL OIL CO
PI US 4165274 790821
PRAI US 1978-915332 780613
OS DERWENT 7966244B

L3 ANSWER 10 OF 10 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING
INFORMATION INC.

AN 72:900 ENCOMPPAT;ENCOMPPAT2
DN 7200212
TI HYDRODESULPHURISATION OF HEAVY OIL - WITH UPFLOW OF OIL AND HYDROGEN
THROUGH FIXED BED OF CATALYST
PA CHEVRON RESEARCH CO
PI US 3620968 711116
PRAI US 1968-772365 681031
OS DERWENT 7178092S

=> s hydrotreating/ct

L4 9097 HYDROTREATING/CT

=> s l1 and l4

L5 23 L1 AND L4

=> d 1-23

L5 ANSWER 1 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
INC.

AN 2001:12676 ENCOMPPAT;ENCOMPPAT2
DN P200118213
TI Process for the production of low sulfur gas oil fuels by a multi-stage
catalytic dehydrosulfurization including a stage of partial elimination of
hydrogen sulfide by stripping
IN CHAPUS T; MOREL F
PA INST FRANCAIS DU PETROLE
PI EP 1123961 20010816
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;
MC; MK; NL; PT; RO; SE; SI; TR
AI EP 2001-400331 20010209
PRAI FR 2000-2809 20000302

FR 2000-1811 20000211
 OS DERWENT 2001490834
 LA French

L5 ANSWER 2 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
 INC.
 AN 2001:3311 ENCOMPAT;ENCOMPAT2
 DN P200104740
 TI Hydrotreating of petroleum charges involves using catalyst comprising
 partially amorphous zeolite Y, matrix and a hydro-dehydrogenating element
 IN BENAZZI E; CSERI T; DEVES J M; KASZTELAN S
 PA INST FRANCAIS DU PETROLE
 PI FR 2793803 20001124
 AI FR 1999-6447 19990519
 PRAI FR 1999-6447 19990519
 OS DERWENT 2001114362

L5 ANSWER 3 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
 INC.
 AN 2000:7251 ENCOMPAT;ENCOMPAT2
 DN P200013255
 TI Microporous oxide material with micro- and meso-porous properties and
 specific structure, for use in catalysis, is prepared by synthesis of gel,
 hydrothermal treatment, and treatment with organic compound with proton
 acceptor group
 IN CHICA LARA A; CORMA CANOS A; DIAZ MORALES U; FORNES SEGUI V
 PA CONSEJO SUPERIOR INVESTIGACIONES CIENTIF; UNIV VALENCIA POLITECNICA
 PI WO 2000024673 20000504
 DS BR; CA; CN; JP; MX; NO; US; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR;
 IE; IT; LU; MC; NL; PT; SE
 AI WO 1999-ES344 19991026
 PRAI ES 1998-2283 19981027
 OS DERWENT 2000350648
 LA Spanish

L5 ANSWER 4 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
 INC.
 AN 2000:58 ENCOMPAT;ENCOMPAT2
 DN P200000482
 TI New bifunctional hydrocracking catalyst comprising an amorphous oxide
 matrix, a dealuminised zeolite Y, a group VB element and a promoter
 IN BENAZZI E; KASZTELAN S; MARCHAL G N
 PA INST FRANCAIS DU PETROLE
 PI FR 2780310 19991231
 AI FR 1998-8043 19980625
 PRAI FR 1998-8043 19980625
 OS DERWENT 2000100093

L5 ANSWER 5 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
 INC.
 AN 2000:57 ENCOMPAT;ENCOMPAT2
 DN P200000481
 TI New bifunctional hydrocracking catalysts based on phyllosilicate clays and
 group VB elements with an amorphous oxide matrix
 IN BENAZZI E; KASZTELAN S; MARCHAL G N
 PA INST FRANCAIS DU PETROLE
 PI FR 2780308 19991231
 AI FR 1998-8042 19980625
 PRAI FR 1998-8042 19980625
 OS DERWENT 2000100092

L5 ANSWER 6 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
 INC.
 AN 1999:10939 ENCOMPAT;ENCOMPAT2
 DN 9912558
 TI Hydrocracking of hydrocarbons feeds using zeolite-based catalyst
 IN BENAZZI E; GEORGE-MARCHAL N; KASZTELAN S

PA' INST FRANCAIS DU PETROLE
PI EP 939113 19990901
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;
J MC; MK; NL; PT; RO; SE; SI
AI EP 1999-400447 19990224
PRAI FR 1998-2442 19980227
FR 1998-2312 19980226
OS DERWENT 99471047
LA French

L5 ANSWER 7 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
INC.
AN 1999:10918 ENCOMPPAT;ENCOMPPAT2
DN 9912504
TI Zeolite NU-88 based catalyst for hydroconversion of hydrocarbon feeds
IN BENAZZI E; DIEHL F; KASZTELAN S; MARCHAL-GEORGE N
PA INST FRANCAIS DU PETROLE
PI EP 937683 19990825
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;
MC; MK; NL; PT; RO; SE; SI
AI EP 1999-400374 19990216
PRAI FR 1998-2102 19980220
OS DERWENT 99460701
LA French

L5 ANSWER 8 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
INC.
AN 1999:5601 ENCOMPPAT;ENCOMPPAT2
DN 9911291
TI Cross-linked dioctahedral 2:1 phyllosilicates with large interfolial
spaces containing oxide inclusions
IN BARON J; BENAZZI E; BRENDLE J; GEORGE-MARCHAL N; LACOMBE S; LE DRED R;
SAEHR D
PA INST FRANCAIS DU PETROLE
PI EP 908233 19990414
DS AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV;
MC; MK; NL; PT; RO; SE; SI
AI EP 1998-402522 19981012
PRAI FR 1997-12864 19971013
FR 1997-12865 19971013
OS DERWENT 99216939
LA French

L5 ANSWER 9 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION
INC.
AN 1998:9057 ENCOMPPAT;ENCOMPPAT2
DN 9811742
TI New mixed sulphide catalytic system - comprising sulphur and elements of
groups Vb and VIB useful in the hydro-refining and/or hydrocracking of
hydrocarbon charges
IN AFANASSIEV P; ALLALI N; DANOT M; GABORIT V; GEANTET C; KASZTELAN S;
MIGNARD S
PA INST FRANCAIS DU PETROLE
PI EP 850688 19980701
DS AL; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV; MC;
NL; PT; RO; SE; SI
AI EP 1997-403070 19971217
PRAI FR 1997-2595 19970303
FR 1996-16091 19961227
OS DERWENT 98335120
LA French

L5 ANSWER 10 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING
INFORMATION INC.
AN 1998:6944 ENCOMPPAT;ENCOMPPAT2
DN 9811466
TI Catalyst with an element of group VIIB for hydrotreating - contains a

matrix, a metal from group IIB, an element from phosphorus, boron, or silicon and a hydro-dehydrogenating metal chosen from molybdenum and tungsten

IN KASZTELAN S; MIGNARD S; QUARTARARO J

PA INST FRANCAIS DU PETROLE

PI WO 9819791 19980514

DS JP; KR; MX; US; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

AI WO 1997-FR2005 19971107

PRAI FR 1996-13573 19961107

OS DERWENT 98286667

LA French

L5 ANSWER 11 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 95:1692 ENCOMPAT;ENCOMPAT2

DN 9510452

TI Hydrocracking process - with a catalyst comprising hydrogenation component, zeolite beta and a pillared clay.

IN OCCELLI M L

PA UNION OIL CO CALIFORNIA

PI US 5374349 941220

AI US 1991-757837 910911

PRAI US 1991-757837 910911

OS DERWENT 95035594

L5 ANSWER 12 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 94:11766 ENCOMPAT;ENCOMPAT2

DN 9412803

TI Catalyst for hydrotreating hydrocarbon and method of prepn. - comprises carrier with molybdenum ligand cpd. as active surface component on the carrier and nickel or cobalt cpd

IN KLIMOV O V; STARTSEV A N

PA AS SIBE CATALYSIS INST

PI WO 9421375 940929

DS CA; JP; US; AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

AI WO 1993-RU281 931119

PRAI RU 1993-15330 930323

OS DERWENT 94316727

L5 ANSWER 13 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 93:8639 ENCOMPAT;ENCOMPAT2

DN 9312250

TI Gallium phosphate based catalysts used in hydro-refining processes - contains at least one matrix, a microporous crystallised gallium phosphate cpd., a zeolite a gp-VI or gp-VIII metal and one of phosphorus, silicon, bismuth or fluorine

IN GUTH J; KASZTELAN S; KESSLER H; MIGNARD S

PA INST FRANCAIS DU PETROLE

PI EP 556108 930818

DS BE; DE; ES; GB; IT; NL

AI EP 1993-400310 930208

PRAI FR 1992-1662 920212

OS DERWENT 93260348

LA French

L5 ANSWER 14 OF 23 ENCOMPAT COPYRIGHT 2002 ELSEVIER ENGINEERING INFORMATION INC.

AN 93:5289 ENCOMPAT;ENCOMPAT2

DN 9311468

TI Pre-sulphurisation of a new or regenerated catalyst - by addn. of a polysulphide and a halogenated or phosphated cpd

IN BERREBI G

PA EURECAT EURO RETRAITEMENT CATALYSEURS

PI FR 2680704 930305

PI• JP 53127391 781107
PRAI JP 1977-42043 770414
OS• DERWENT 7890244A

L5 ANSWER 21 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING
INFORMATION INC.
AN 72:2357 ENCOMPPAT;ENCOMPPAT2
DN 7201523S
TI SULPHIDING HYDROGENATION CATALYSTS - IN MULTI-STAGE HYDROGENATIONS
PA SHELL INTERNATIONALE RESEARCH MAATSC
PI BE 770713 720131
PRAI GB 1970-46045 700928
OS DERWENT 7211040T

L5 ANSWER 22 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING
INFORMATION INC.
AN 72:1667 ENCOMPPAT;ENCOMPPAT2
DN 7200854
TI HYDROCRACKING HEAVY PETROLEUM FEEDS OF CONTROLLED NITROGEN CONTENT
PA SHELL INTERNATIONALE RESEARCH MAATSC
PI NL 7113221 711227
PRAI NL 1971-13221 710924
OS DERWENT 7203912T

L5 ANSWER 23 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING
INFORMATION INC.
AN 72:900 ENCOMPPAT;ENCOMPPAT2
DN 7200212
TI HYDRODESULPHURISATION OF HEAVY OIL - WITH UPFLOW OF OIL AND HYDROGEN
THROUGH FIXED BED OF CATALYST
PA CHEVRON RESEARCH CO
PI US 3620968 711116
PRAI US 1968-772365 681031
OS DERWENT 7178092S

=> d ab 20

L5 ANSWER 20 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING
INFORMATION INC.

=> d ab 10

L5 ANSWER 10 OF 23 ENCOMPPAT COPYRIGHT 2002 ELSEVIER ENGINEERING
INFORMATION INC.
AB A catalyst with an element of group VIIB for hydrotreating is claimed. It
contains a matrix, a metal from group VIIB, an element from phosphorus,
boron, or silicon and a hydro-dehydrogenating metal chosen from molybdenum
and tungsten. It also contains fluorine, an element from group VIIA. USE
- For transformation of hydrocarbon feed such as oil, oil under vacuum,
paraffin oil and hydrotreating. (17pp Dwg.No.0/0)



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Legal Date: 06-04-2002

No.	Doccode	Number of pages
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2	892	1
3	1449	1

Total number of pages: 10

Remarks:

Order of re-scan issued on